

IN THE UNITED STATES DESIGNATED OFFICE (DO/US)

| | | |
|----------------------------|---------------------------|-----------------------|
| In re: | Helasuo <i>et al.</i> | Attn: DO/US |
| International Appl. No.: | PCT/FI2004/000758 | Confirmation No. 4965 |
| International Filing Date: | December 13, 2004 | |
| For: | SEAL FOR MEASURING DEVICE | |

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The documents listed on the attached PTO-1449 were cited in the International Search Report of corresponding International Application No. PCT/FI2004/000758. A copy of the Search Report is enclosed along with any cited foreign patent documents in accordance with 37 CFR 1.98(a)(2).

The Examiner may wish to consider the notations on the Search Report itself regarding the relevance of each item. It is requested that the Examiner consider these references and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By identifying the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead identifying the listed documents for the sake of full disclosure.

Respectfully submitted,

/kevin r. lyn/

Kevin R. Lyn
Registration No. 42,818

Customer No. 00826
ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000
Tel Raleigh Office (919) 862-2200
Fax Raleigh Office (919) 862-2260

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|
| Applicant's or agent's file reference 2032677PC/ko | FOR FURTHER ACTION | see Form PCT/ISA/220 as well as, where applicable, item 5 below. |
| International application No. PCT/FI 2004/000758 | International filing date (day/month/year) 13 December 2004 | (Earliest) Priority Date (day/month/year) 15 December 2003 |
| Applicant Metso Automation OY et al | | |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000758

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F16J 15/52, G01N 11/14 // D21G 9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F16J, G01N, F16L, F16D, D21G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------|-----------------------|
| A | US 6151957 A (ENARSON), 28 November 2000 (28.11.2000) | 1-17 |
| A | US 3181349 A (J.G. JANSSON), 4 May 1965 (04.05.1965) | 1-17 |
| A | US 5176576 A (MOULINDT), 5 January 1993 (05.01.1993) | 1-17 |
| A | EP 0736679 A1 (MAGNETI MARELLI S.P.A.), 9 October 1996 (09.10.1996) | 1-17 |

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

7 April 2005

Date of mailing of the international search report

14 -04- 2005

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Annette Riedel / JA A
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000758

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------|-----------------------|
| A | WO 9114168 A1 (PUBLIC HEALTH LABORATORY SERVICE BOARD), 19 Sept 1991 (19.09.1991) --- | 1-17 |
| A | US 4823594 A (GRAY), 25 April 1989 (25.04.1989) --- | 1-17 |
| A | US 4653313 A (SABINS ET AL), 31 March 1987 (31.03.1987) ----- | 1-17 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/03/2005

International application No.

PCT/FI 2004/000758

| | | | | | | |
|----|---------|----|------------|------|----------------|------------|
| US | 6151957 | A | 28/11/2000 | AT | 254763 T | 15/12/2003 |
| | | | | AU | 2983997 A | 09/12/1997 |
| | | | | CA | 2255697 A | 27/11/1997 |
| | | | | DE | 900369 T | 23/05/2001 |
| | | | | DE | 69726273 D,T | 26/08/2004 |
| | | | | EP | 0900369 A,B | 10/03/1999 |
| | | | | JP | 2000510953 T | 22/08/2000 |
| | | | | NO | 985430 A | 20/11/1998 |
| | | | | SE | 506589 C | 19/01/1998 |
| | | | | SE | 9601876 A | 23/11/1997 |
| | | | | WO | 9744647 A | 27/11/1997 |
| | | | | AT | 249043 T | 15/09/2003 |
| | | | | AU | 6642698 A | 22/09/1998 |
| | | | | DE | 69817807 D,T | 15/07/2004 |
| | | | | EP | 0981746 A,B | 01/03/2000 |
| | | | | SE | 0981746 T3 | |
| US | 3181349 | A | 04/05/1965 | GB | 1019652 A | 09/02/1966 |
| | | | | NL | 291945 A | 00/00/0000 |
| US | 5176576 | A | 05/01/1993 | DE | 69009014 D,T | 16/02/1995 |
| | | | | EP | 0430742 A,B | 05/06/1991 |
| | | | | FR | 2655104 A,B | 31/05/1991 |
| | | | | JP | 3209025 A | 12/09/1991 |
| EP | 0736679 | A1 | 09/10/1996 | SE | 0736679 T3 | |
| | | | | DE | 69600074 D,T | 12/02/1998 |
| | | | | ES | 2110860 T | 16/02/1998 |
| | | | | IT | 235994 Y | 18/07/2000 |
| | | | | IT | 1280844 B | 11/02/1998 |
| | | | | IT | T0950264 A,U,V | 07/10/1996 |
| WO | 9114168 | A1 | 19/09/1991 | AU | 7543891 A | 10/10/1991 |
| | | | | GB | 9005646 D | 00/00/0000 |
| US | 4823594 | A | 25/04/1989 | NONE | | |
| US | 4653313 | A | 31/03/1987 | NONE | | |